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TECH CENTER 1800/2900

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: DUWENIG, Elke; RAUSCH, Thomas
- (ii) TITLE OF INVENTION: Plant gene expression under the control of constitutive plant V-ATPase promoters
- (iii) NUMBER OF SEQUENCES: 3
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Keil & Weinkauff
 - (B) STREET: 1101 Connecticut Avenue
 - (C) CITY: Washington
 - (D) STATE: D.C.
 - (E) COUNTRY: USA
 - (F) ZIP: 20036
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
 - (B) COMPUTER: IBM AT-compatible, Pentium processor
 - (C) OPERATING SYSTEM: Windows 95
 - (D) SOFTWARE: WordPerfect version 6.1
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/636,826
 - (B) FILING DATE: 14-AUG-2000
 - (C) CLASSIFICATION:

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2090 nucleic acids
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GATATCACAC ATTCGTCCAT CGACGATTG CGAACTTTCA AATAGGTACG TAATTCTTTT	60
AATCTTCAAA GTTATTTTAC ATTAGTCGAC TATTATGTAG TTGAAAAAAT GGAGATAATA	120
GGAATTAGTT GAAAAGGGTG TTTATATAAT TAGACTTAAA TTTGATTCAT TTTCATATAT	180
CTGAAAACAA GGTATGTATG AAATTTGATT CATTTATGAC ACTGATGAAA AAGTTAACGA	240
TTTAGTTCTT TTTTTTAAAA TTCCAATATA AATTTTGGCC CAAAACTTTT GCAAAATATC	300
CATGTTCCGA AATAAATTTT GAAAAACAAA ACAATATCAA ACCTTTTTGC GAACAACTTT	360
TACAAAATC CATTTTCAGA AAAAAAATT TACATTAAC TGC GAAATCA AATTGTGTAT	420
GAAAAATTTA AAATTTCTT TCACCTATAA TTGAACTCA AAGTGTTAAA ATTTAGAAAA	480
GGAGAAAAAT AAAAATGAC CATTTTCATGC GAAATCAAAT TGTGTATGAA AACTTAAAA	540
TTTTATTTTA AATATAATTG AAATTCAAAG TGTTAAAATT TAGAAAAGGA GAAAAATTAA	600

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AATGACCATT TCATTCAAAA TCAGATTGTG TATGAAAAAT TTAAATTTTT ATTTCAAAAA 660
 TAATTGAAAC TCAAAGTGTG AACATTTAGA AAAGGAGAAA AATTAAAATG ATGAAAATTT 720
 GTAAAACATC AATTTGTGAA ATCAGAATTT AGAAGTTAGA CAAGGAAAAA AAAGTGAATT 780
 GTCTTATACT TTTCGGTTAC AATTTTGGGA TCATAAGAA ATTACTGAAA TCCATATCAA 840
 AAAGTATTAT AAATTACAAA AATGAATAAA ACCAAAAAAA GAAGAACATG ACGATATTTT 900
 GTAAAGAACA TCATACTGAT TATAAAGAA CATGCGCATA TTAGAATTGA GAAACAAAAA 960
 ACTATTCAAA ATCACAAAAA TGGATAACAA CATAAAAGA ACATGAAAGA ATCTTATTCA 1020
 CAAAATGGAG GTGAACCTAA ATACTAAGTT GCATTTTCAG TTTATTTACT ACTTAGTATT 1080
 AGGCCTAAAA ATATCATCGC ACGCATCGCG TGCACAAAAG ACTAGTGTTA AGTATCACAA 1140
 GTCACAAACT CACAACCTGAT TTTCATTTAG GCTCCATTTG GTAGGGCGTA AAACGTTTTT 1200
 CCGGAACACT ATTTTCTCTC ATTTTCTAGT TTACATTGTT TGGTTGACAA AAGAGTGTA 1260
 AACCGTTTTT CCTTGGGGTA AAATTACTCT TCCAATGATC GAAAACCATT TTCCTTTCAA 1320
 AATGAAGGGA AAAGTGTGTT CCTTATCTCT CTTGTTACAC TTTTCTCACT ACCTCCTTAC 1380
 TTTCCCTTTT ATTTTACTTT CATTTTATCA TTTTCTTTGC ATGAAACCAA ACAACGGAAA 1440
 ACTAATTTTG GAATTGTGTT TTCCATTGTA AATTGTTTTT CATGAAAATC ATTTTACACT 1500
 GAAAATGTTT TACACCCTAC CAAACAGAGC CTTCTGTGTC CATGAATGCA TGACCGATTT 1560
 CAAATTCGAA ACTGGTGTTT ACCGTTTCCT AATTGGTTTT GAGTTCACAA CCAAGTATTC 1620
 AACTATGTTG CTCACCCTAA AGATGAATAT GGTAACCTTGAGGTGGGC TTTGGCTAAA 1680
 AAAAGTCCCA CCAAGCCCCA ATTCTAGGCT CCCAAAACCA CGAAATTTCC TGGTACTATT 1740
 CCAAAACAAA AACAAACACC TCCTGATCAA ACCAGAAAAA ATAAACATA TTTTGTGTTT 1800
 CTCCAATTT TTCAATTTTAA TTTATCACGG GAAAGTACAC AATAATTCAA TCAAGGGTAA 1860
 AAAAAATAAA ATAAAAAGAA AAGATAAGTA TAAACAAAAG AAATTTGTCT TCTCTACATC 1920
 CTCATATTTT ATCCACGCTC TCTTCTTCTT CTCCTCTCAT CTCCTTTTTT AATTCCCAGA 1980
 TCGGATCAAG CAATTCATCG AACACCTTCC GATCATCACC ATCAAAAAAA ATGTCAACAG 2040
 TCTTTAACGG CGATGAAACG GCGCCGTTCT TCGGCTTTCT GGGTGCTGCT 1090

(3) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1153 nucleic acids
- (B) TYPE: nucleic acid
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGGTGGGGGT GAAGTGGGGG CTGCAGGGGT GGGTGGGGGG GGCTGGTGGC AGGTATTGGT	60
AGTGGTGCTA GGTGGTGATT ATGGAGGAAG AAGGGAAATA GAAGTGGTTA ACACCGAAAA	120
GTGAGATTAA GTTTTATCTT GCAAAAATAA TTTATTTTTT GGTTTGTTTT CACAAAGAAT	180
GCTTTATTAA GGTTTTTTTT TGCAAAAAC TGAACTTTTA AAAGGTTTTT TTTGATAAAT	240
TTTCCTAATA TTAATAAATG AAAATTTTTC TAACATGGGA GATAGCCTGG ACCTATAACT	300
AGTTGTTATA ACTTATAAGA AGAGAATTTT GGGCAACTAT GCGGAAAATA GGGGAAATTT	360
TGGAAAAAAT AAGTAAAAGA TTTTAGGTGT AACTTGCTT GTTATAAGTT ATAAACTTGA	420
ATTTGTTCTA TTGATAGTGT TGGTTAATAA TGTGACAACT AAATCGAACA TAAAGGTTTA	480
GGACCCTTTC GACATCATTG AGAGTTAGAG GTGGGCATGA GCCGGGCCAG TTCGCGTGCT	540
GGAACGGCCA GTTCGCGGGC TGGTACGGCC AGGCACGAGC CCGATCAAGG CACGACCCGG	600
CTTGTTGTCC GCTACGTGGA CCGTGGGCCC ATCACGGTCA AAAAAAATA TTTTAGGCTC	660
GCACCAGCAC GAGCCCGCGT AGGCCAGCCC GCGGGCTGAA TGTTCCTTTC CTTTGTTTTT	720
TAGCCTAAAA CTGTCATAAA TACAAAAAGA TAACATAAAA CACAGGCTAG GCCCTCAATA	780
GGCACGAGCC CGTGGAAAAA ATCCGAAAAT TCCAAGCCTA GCTAGTTACT CACAAGCTCA	840
GACCCGATTC GTCATTTTTTC CAAACCCGTG GGCCGAGCCG GTGAACAGGC TCGGCCCGGC	900
TCATGTCCAG GTGACAGGTC TACTGAGAGT TATGAGTTGT TTCCCCATGG GCTACTTGAC	960
TACAAACCTT CCATAGTTCC ATGACACTTC CATCTGAGCC CATGAGATAA AATTAAGGAA	1020
TACAAACACA AAACCTCAACA ACCAACCCGA AATATCGATC GGAATTGTTA GCACGTGTTA	1080
TGTTGGGTCC CATCCAAGAA ACTTTCTCTC TCCTCCTCCT TCATAAAAAA ACCTTCTCAC	1140
TGATCCCATC CAG	1153

(3) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1073 ???? acids

(B) TYPE: nucleic acid

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GAATTCTCTG CTCTGGATTC GACATCAAAA TTTCCACCGG GTTACTATTC AAACAGACTG	60
CTCAAATCTC ATTTCTTCTC TTCGTTCTAT TTCGACGGTG CCTCGCTCTA TCTACTGGTC	120
TGTATGCCAG ATTATGAGTC TAACAGGAAA TCTTCACTGG TGTTTTCTGC TTAAAGTAAA	180
TTGTCAAAAA GTTCAAAAGG CACAAAATGT GGCTAAGCTA TGTGCTCAAA TTTGTTGTTT	240
ACTACTTGAT TTGTTTTCTT TCTCTTTATG CCTGTTTTTT CCCCTTTGT AAAAAAAGA	300
TACAAGTATA GATGAAGGGA TTCTTTATAT TGGCCCCATG TGTCGTTAG ATAATTACAT	360
TGTACCCTCA ATTCCTCATC TTCCTTGAAG TTCTACGTAG TACCATTGTG GTTGCATAAG	420
CAAATGATAA TCATACTTTC ATATCTTAGT TAATGTACAT CGTCACTTGT GCTTAACATG	480
TCATAAACTA ATTCCTTGG TTTAATACTG GTTACATTAA CTAAATCTTT TATTCTTAAA	540
TATTTAAGAA GTGTGCAGTA AATTAAGTTT CTTCCAAATC CTCAATAAGA CATTATACTT	600
AGAAAAC TTC TATAAAGTTA CTTATCAACT TACAGATAAC GACCAAAGAA TCATCACCAA	660
AACAGTTATC GAACCACATA GAAGCTGCAT AGCTTTTGAA AAAGGTGAAG GTACAATATA	720
AATCTCCAAC AAATATAGTG TATCTACTCC CAAAAGCTAT CCTAGTAATA TCCCTATCTC	780
AAAAACATAT CTTTTATCAA CTTTTTCCCA ACACAAACTC AATTGTTAAA AACTACAAGG	840
AAACGTTGTT TAACCAATCA CTATATTTAC ATTAACCATA TTTTAAATTT AGTTAAACCT	900
CTCAAGTCTC ACTACATTCT TAAAAAAGT TGGAGATAGA GTCATCATAA TTCATAGAGA	960
AGGAATTGAC AACATCTAAT AAGAACGAAT TACGAACGTG GCAAATCAC AGACGAAACA	1020
TAGCAAACT TAACCCTGCA AATCTCAATC AGATTTAAAT AATCCTTTTG CTG	1073